EJERCICIO VECTORES EN EL PLANO

Sea $\boldsymbol{u} = (1, 2)$, $\boldsymbol{v} = (-3, 4)$, $\boldsymbol{w} = (w_1, 4)$ y $\boldsymbol{x} = (-2, x_2)$.

Determine w_1 y x_2 de modo que

(a) $\boldsymbol{w} = 2\boldsymbol{u}$

(b) $\frac{3}{2}\boldsymbol{x} = \boldsymbol{v}$

(c) $\boldsymbol{w} + \boldsymbol{x} = \boldsymbol{u}$

Solución

(a)

```
sage] var('w1,x2')
    (w1, x2)
sage] u=vector([1,2])
sage] v=vector([-3,4])
sage] w=vector([w1,4])
sage] x=vector([-2,x2])
sage] respuestas=[]
sage] for i in range(2):
          respuestas.append(w[i]==2*u[i])
sage] respuestas
    [0, 1, w1 == 2, 4 == 4]
```